

L 15007-65 ENT(1)/EEG(t)/EEG(b)-2 AEDC(a)/ASD(a)-5/AETC(b)
ACCESSION NR: AP5000434 S/0311/64/000/006/0022/0025

AUTHORS: Charnaya, F. A. (Candidate of technical sciences);
Yakob, Z. G. (Engineer) B

TITLE: Emission of high-pressure flash lamps in the ultraviolet
region of the spectrum 21

SOURCE: Svetotekhnika, no. 6, 1964, 22-25

TOPIC TAGS: high intensity light source, ultraviolet emission,
spectral energy distribution

ABSTRACT: In view of the contradictory published data on the ultra-
violet radiation of pulsed discharges, the author investigated the
spectral distribution of xenon, argon, nitrogen, and helium filled
quartz lamps, developed at VNISI by L. N. By*khovskaya, with dis-
charges of 5--20 Joules. The commercial quartz lamp ISSh-500 was
also tested. The tests were made by taking oscillograms of photo-

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currents and using the UIF-1 recording pulse photometer of VNISI. The spectrum range covered was 230 to 560 nm. The optical equipment was based on the ISP-22 spectrograph. The standard light source were a tungsten ribbon-filament lamp and a mercury-quartz standard lamp. The results were reproducible within $\pm 15\%$. All lamps had a maximum radiation in the ultraviolet region ($\lambda > 230$ nm) with practically constant intensity in the visible region (with the exception of nitrogen lamps, which exhibited a broad rise at 380--420 nm). None of the lamps come close to producing black-body radiation. The fraction of ultraviolet in the radiation ranged from 60% (nitrogen, 5 J) to 86% (ISSh-500, 20 J). The instantaneous and maximum brightnesses and the spectral distribution of the various lamps are compared with other published data, with allowance made for differences in electrode spacing and other discharge conditions, including the difference between arc and spark spectra. "In conclusion, the authors thank I. M. Gurevich for suggesting the topic and for continuous interest." Orig. art. has: 3 figures

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and 1 table.

ASSOCIATION: Vsesoyuznyy svetotekhnicheskiy institut (All-Union
Lighting Engineering Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: OP

NR REF SOV: 011

OTHER: 003

Card

3/3

L 11065-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACC NR: AT6001391

SOURCE CODE: UR/3180/64/009/000/0106/0108

AUTHOR: Bykhovskaya, L. N.; Libin, I. Sh.; Charnaya, F. A.

33
B+1

ORG: none

TITLE: Nitrogen flash lamps

SOURCE: AN SSSR. Komissiya po nauchnoy fotografii i kinematografii. Uspekhi nauchnoy fotografii, v. 9, 1964. Vysokoskorostnaya fotografiya i kinematografiya (High-speed photography and cinematography), 106-108

TOPIC TAGS: flash lamp, nitrogen, optic brightness

ABSTRACT: Sealed flash lamps filled with nitrogen at pressures up to about 10 atm were prepared. The maximum instantaneous brightness was measured with a UIF-1 VNISI pulse photometer. Saturation of maximum brightness was found to occur at nitrogen pressures above 6 atm at $U = 12$ kv. By raising the gas pressure in the lamp, one can substantially decrease the voltage at which a given peak value of brightness is attained. Up to 15 atm, the maximum brightness of lamps operating under saturation conditions is practically independent of the pressure; an increase in pressure merely prolongs the radiation. The effects of pressure, distance between electrodes and inductance of the discharge circuit on the voltage at which brightness saturation is achieved are the same as in inert gases. The absolute value of the brightness of ni-

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trogen lamps under saturation conditions is more than double that of xenon lamps since the radiation pulse is much shorter. In the entire spectral range where saturation is attained, the discharge channel as a radiator is very close to a black body when the brightness reaches its maximum value. Orig. art. has: 2 figures. 0

SUB CODE: 13120 SUBM DATE: 00/ ORIG REF: 007/ OTH REF: 002

Card

2/2

ACCESSION NR: AP4020945

S/0051/64/016/002/0365/0367

AUTHOR: Charnaya, F.A.; Bykhovskaya, L.N.

TITLE: Effect of the type of gas and the discharge conditions on the peak luminous intensity of high pressure flash tubes

SOURCE: Optika i spektroskopiya, v.16, no.2, 1984, 365-367

TOPIC TAGS: flash tube, discharge tube, flash peak intensity, flash tube intensity, flash tube brightness, high pressure discharge tube, inert gas, argon, xenon, krypton, nitrogen, flash intensity saturation

ABSTRACT: For efficient use of flash tubes for photography and other purposes it is essential to know not only their luminous characteristics but also the time characteristics of the emission. It has been found that one of the distinctive features of pulse discharges in inert gases at high pressures (in a volume not effectively bounded by the tube envelope) is that the shapes of the brightness B and luminous intensity I pulses differ. Measurements for all the inert gases as well as for nitrogen and oxygen have shown that regardless of the discharge conditions the time t_1 from initiation of the discharge to the peak value of B is shorter than the time

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ACC.NR.AP4020945

t_2 to the peak value of the luminous intensity I . During the interval t_2-t_1 the plasma temperature and diameter of the luminous channel may vary differently in different gases. Hence the ratios of B_{peak} for different gas-fillings may differ from the corresponding ratios of I_{peak} . In the present work, in addition to the time variation of B and I in some gases, there were determined the dependences of I_{peak} on the flash (discharge) energy W for tubes filled with different gases to different pressures and with different electrode gaps d . The results are shown in Figs.1 and 2 of the Enclosure. It was also found that in all cases there is a certain rather high capacitor voltage at which virtual saturation of I_{peak} is attained (i.e., further increase of the capacitor voltage brings no further increase of the peak intensity). This "saturation" potential decreases with increase of the atomic number and pressure of the gas with decrease of the interelectrode distance d . In view of their characteristics (high peak intensity and short emission period) nitrogen filled flash tubes would appear to be good sources of illumination for ultra highspeed photography. "In conclusion, the authors express their gratitude to I.M.Gurevich for valuable suggestions in discussing the results of the work." Orig.art.has: 3 figures.

Card

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Sub: .17 JUNE 63

L 5459-66 ENA(k)/FBD/ENT(1)/ENT(m)/GFF(c)/JEC(k)-2/T/ENT(t)/ENT(k)/ENT(b)/
ENA(m)-2/ENA(n) GGTB/IJF(c) WG/JD

ACC NR: AP5025098

SOURCE CODE: UA/0366/65/003/003/0265/0269

AUTHORS: Bykhovskaya, L. N.; Gurevich, I. N.; Yolina, N. G.; Kononova, S. V.;
Neyman, I. S.; Charnaya, F. A.

ORG: All-Union Lumo-Technical Research Institute, Moscow (Vsesoyuznyy nauchno-
issledovatel'skiy svetotekhnicheskiy institut)

TITLE: Impulse lamps VNISI for lasers

SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 3, 1965, 285-289

TOPIC TAGS: xenon lamp, impulse lamp, optical pumping, optical quanta generator

ABSTRACT: In order to develop reliable lasers for use as optical pumps in various solid state devices, the performance of 8 different Xe lamps was studied. Lamps having straight and cylindrical spirals and flash energy output between 200 to 2000 joules were studied. The spectral distribution, light intensity, and electrical resistance of the lamps were determined. The results are presented in tables and graphs (see Fig. 1). It is concluded that the observed saturation of radiant energy F_{λ} in the region of 900 Å for the lamp IP-400 (400 mm Hg Xe) is

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UDC: 621.385.8

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ACC NR: AP5025098

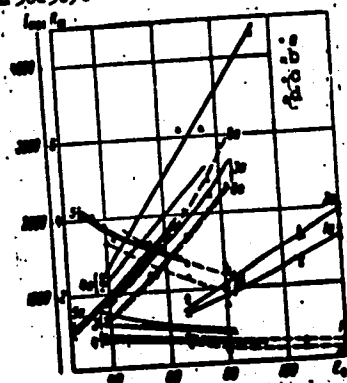


Fig. 1. Dependence of current amplitude $I_{\max}$ (a) curves 1a - 6a and resistance of impulse lamps R_a (ohm) at the instant of $I_{\max}$ - curves 1 - 6 on the initial potential gradient E_0 (v/cm).
1 - 1a - IP-200; 2, 2a - IP-400;
3, 3a - IP-3000; 4, 4a - IP-5000;
5, 5a - ISTS-10000; 6, 6a - ISP-10000;
a - at $C = 20\mu$ microfarad; b - 530 mf;
c - 1160 mf; d - 1475 mf.

due to line plasma absorption. Orig. art. has: 3 tables and 4 graphs.

SUB CODE: EE, OP, EC / SUBM DATE: 00/

ORIG REF: 010/ OTH REF: 003

Card 2/2 *Red*

L 5452-66 EWT(1)/EPA(s)-2/EWT(m)/EPF(c)/EWP(t)/EWP(b)/EWA(m)-2 IJP(c)

ACCESSION NR: AP5019752

JD

UR/0051/65/019/002/0181/0185

537.523/.527

AUTHOR: Charnaya, F. A.; Yakob, Z. G.

TITLE: Investigation of absorption in the channel of a high-pressure pulsed discharge

SOURCE: Optika i spektroskopiya, v. 19, no. 2, 1965, 181-185

TOPIC TAGS: electric discharge, pressure effect, light transmission, light absorption, gas discharge, flash lamp, xenon, argon, nitrogen, air

ABSTRACT: The authors investigated the time dependence of the transmission coefficient and of the absorption index of a pulsed discharge in xenon, argon, nitrogen, and air. The experimental setup employed is shown in Fig. 1 of the enclosure. It is similar to the setup used for spectroscopic investigations of flames, and was suggested by I. V. Podmoshenskiy (Opt. i spektr. v. 6, 813, 1959) for the study of absorption in discharges that are not space-stabilized. The instantaneous transmission coefficient is determined by comparing the intensity of the channel with the optical reflecting system closed and opened. The investigation was conducted in the spectral region from 400 to 580 nm. The transmission coefficient exhibits a characteristic minimum corresponding to the time when the intensity is at the max-

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ACCESSION NR: AP5019752

imum. The transmission increases at the end of the discharge. The absolute instantaneous value of the transmission decreases with increasing discharge-capacitor voltage and with increasing atomic weight of the gas, whereas the absorption index increases. The results are compared with other published data and some deviations from the latter are discussed. "The authors thank K. S. Ful'fson, I. M. Gurevich, and L. N. Bykhovskaya for help and interest in the work." ^{44,55} Orig. art. has: 5 fig-
ures and 1 formula. ^{44,55}

ASSOCIATION: none

SUBMITTED: 30Apr64

NR REF SOV: 011

ENCL: 01

SUB CODE: OP

OTHER: 003

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L 5452-66

ACCESSION NR: AP5019752

ENCLOSURE: 01

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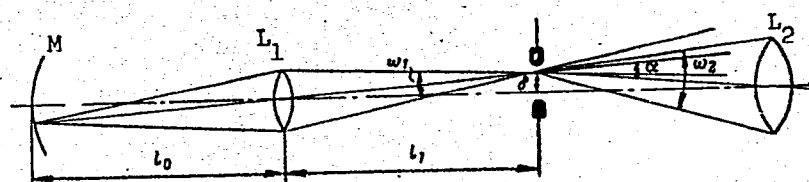


Fig. 1. Optical diagram of the setup. $l_0 = l_1 = 2f$ of lens L_1 ; radius of curvature of mirror M is equal to $2f$. Lens L_2 projects the discharge channel on the slit of the optical scanner.

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L 43863-65 EWT(1)/EPA(s)-2/EPA(w)-2/EEC(t)/EWA(m)-2 Pab-10

ACCESSION NR: AP5005448

S/0051/65/018/003/0530/0531

AUTHOR: Charnaya, F. A.; Yakob, Z. G.

TITLE: Dependence of the time variation of the spectral density of radiation from a high-pressure pulsed discharge on the wavelength

SOURCE: Optika i spektroskopiya, v. 18, no. 3, 1965, 530-531

TOPIC TAGS: flash discharge, pulsed discharge, high pressure discharge, spectral density, flash delay, flash peak

ABSTRACT: It has been found by a photographic mirror-scanning technique, described elsewhere (Opt. i spektr. v. 11, 549, 1961), that the change in the duration of the continuous-spectrum radiation, occurring in high-pressure flash lamps on going to the longer wavelengths, is accompanied by a shift in the instant of time at which the maximum amplitude is reached. This means that the shorter the wavelength, the steeper the front of the radiation pulse. This phenomenon holds true for various gases and for various pressures, but is independent of the discharge voltage. A similar dependence of the maximum on the wavelength was observed also in the max-

Card 1/2

L 43863-65

ACCESSION NR: AP5006448

imum of the current amplitude, but the maximum brightness did not correspond to the maximum current. The reason for the difference is explained. Orig. art. has: 2 figures.

ASSOCIATION: None

SUBMITTED: 30Apr64

ENCL: 00

SUB CODE: OP

NR REF SOV: 008

CHTR: 001

LL
Card 2/2

11F

CHARNAYA, P.M.

The mechanism of alimentary hyperglucemia. I. The speed of appearance of hyperglucemia after administration of sucrose. S. G. Genes and P. M. Charnaya. *Méd. eksptl. (Ukraine)* 1936, No. 6, 37-43. Since glucose is very rapidly absorbed from the gastrointestinal tract, sucrose (which has to be broken down to glucose and fructose before absorption) was introduced into the stomach of dogs by a tube. Hyperglucemia appeared 1-10 min. after the administration of sucrose (av. = 1.8 min.). Administration of the same quantities of water produced no hyperglucemia. Administration of sucrose after denervation of the liver either produced no hyperglucemia or very markedly increased the latent period. It is, therefore, concluded that the primary alimentary hyperglucemia is produced reflexly and that liver denervation favors the accumulation of carbohydrates in the liver.

S. A. Corson

CHARNAYA, P.M.		PROCESSING AND PROPERTIES INDEX	
Effect of insulin on the elimination of sugar and retention of lactic acid by the liver. S. G. Genes, P. M. Charnaya, and T. S. Vakusheva (Ukrain. Centr. Inst. Endocrin. Organotherapy, Kharkov). <i>Bull. Eksp. Biol. Med.</i> (U.S.S.R.) 11, 119-23(1941).—The action of insulin on the carbohydrate function of the liver in angiotomized dogs was investigated. After 30 min. following insulin injection, in spite of a great drop in the sugar level in the influent blood, this level in the effluent blood actually shows a rise; concurrently with this and with the heightened lactic acid level, the retention of the latter by the liver also increased. The av. sugar elimination was 15 mg. % and lactic acid retention 8 mg. %. Depancreatized animals also show a similar picture of sugar elimination and lactic acid retention (21 and 14.1 mg. %, resp.). Changes in sugar level of the influent blood do not affect the elimination function of the liver. In the absence of insulin indications are for lower elimination of sugar and greater lactic acid retention with higher levels in the influent blood. The expts. thus illustrate the homeostatic liver reaction.		11-H	
ATB-3LA METALLURGICAL LITERATURE CLASSIFICATION		6-2	

CHARNAYA, R.M.												PROCESSES AND PROPERTIES INDEX											
Ca												118											
Consumption of the carbohydrate components of the cardiac muscle of healthy and depancreatized dogs. S. G. Geras, F. M. Charnaya and T. S. Yakusheva. <i>Russk. Med. Biol. No. 1, 84-9 (1942); cf. C. A. 35, 1210P</i>. — Insulin appears to cause a small increase of utilization of carbohydrate components in the cardiac muscle of healthy dogs; in depancreatized dogs the effect is to bring the utilization closer to that of healthy dogs not treated with insulin. G. M. Kondapoff																							
ASB-56A METALLURGICAL LITERATURE CLASSIFICATION												FROM 00-110											
FROM 00-110												FROM 00-110											
FROM 00-110												FROM 00-110											

CHARNAYA, P.M.

VELLER, N.S.; GENES, S.G.; RODKINA, B.S.; CHARNAYA, P.M.

Role of the nervous system in the development of diabetes mellitus.
Probl.endok. i gorm. 1 no.1:77-84 Ja-F '55. (MLRA 8:10)

1. Iz otdela patofiziologii (zav.--saslushennyi deyatel' nauk
prof. S.G.Genes) Ukrainskogo instituta eksperimental'noy endokri-
nologii (dir.--kandidat meditsinskikh nauk S.V.Maksimov)
(DIABETES MELLITUS, etiology and pathogenesis,
CNS pathogen.role)
(CENTRAL NERVOUS SYSTEM, in various diseases,
diabetes mellitus, pathogen.role)

~~V. Chernaya, P.M.~~
CHARNAYA, P.M.

VELDER, N.S.; CHARNAYA, P.M. (Khar'kov)

Origin in the central nervous system of diabetic hyperglycemia.
Arkhn.pat. 17 no.3:63 J1-S '55. (MLRA 8:12)

1. Iz otdela patofiziologii (zav.-prof. S.G.Genes) Ukrainskogo
instituta eksperimental'noy endokrinologii.
(CENTRAL NERVOUS SYSTEM, physiology,
eff. of stimulation in exper.diabetes)
(DIABETES MELLITUS, experimental,
Eff. of CNS stimulation)

Diabetogenic action of corticotropin (ACTH) during hypo-
function of islet apparatus. N. S. Veller and P. M. Chayn, et al.
(Ukrain. Inst. Exptl. Endocrinol., Kharkov). *Problemy
Endokrinol. i Gormonoterap.* 2, No. 5, 44-46, 1966. ACTH
in doses which do not induce diabetogenic effects in normal
rabbits, induces diabetogenic effects in rabbits with a mild
or hidden form of alloxan diabetes. In the majority of rabbits
receiving ACTH there was observed resistance to or lowered
reactivity of insulin. Administration of ACTH to com-
pletely depancreatized dogs, receiving standard doses of in-
sulin and raw pancreas, aggravated the course of diabetes,
indicating that the diabetogenic effects of the hormone are
accomplished extrapancreatically. J. A. Stekol

2

GENES, S. G., VELLER, N. S., CHARNAYA, P. M.

"The Significance of the Brain in the Occurrence of Diabetic Hyperglycemia and its Role in the Utilization of Carbohydrates by the Brain."

Theses of the Proceedings of the Annual Scientific Sessions 23-26 March 1959
(All-Union Institute of Experimental Endocrinology)

From the Department of Pathophysiology (Head--Professor S. G. Genes, Distinguished Man of Science) of the Ukrainian Institute of Experimental Endocrinology (Director--S. V. Maksimov, Candidate of Medical Sciences)

GENES, S.G., prof.; PLAVSKAYA, A.A.; CHARNAYA, P.M.; YURCHENKO, M.Z.
(Khar'kov)

Potentiation and prolongation of the effect of insulin by butamide.
Pat.fiziol. i eksp. terap. 3 no.4:31-34 J1-Ag '59. (MIRA 12:12)

1. Iz otdela patofiziologii (zav. - zaslushennyy deyatel' nauki prof.
S.G. Genes) Ukrainskogo instituta eksperimental'noy endokrinologii.
(TOLEUTAMIDE pharmacology)
(INSULIN pharmacology)

VELLER, N.S.; CHARNAYA, P.M.

Role of the central nervous system in the development of diabetic
hyperglycemia and elimination of insulin hypoglycemia. Sbor.
nauch.-issl. inst. eksper. endok. 15:113-121 '59. (MIRA 14:11)
(NERVOUS SYSTEM) (DIABETES) (INSULIN)

GENES, S.G.; VELLER, N.S.; CHARNAYA, P.M. (Khar'kov)

Origin of hyperglycemia in the central nervous system in diabetes mellitus and on its significance in the utilization of carbohydrates by the brain. Pat. fiziol. i eksp. terap. 4 no. 6:34-39 N-D '60. (MIRA 14:2)

1. Iz otdela patofiziologii (zav. - zasluzhennyy deyatel' nauki prof. S.G. Genes) Ukrainskogo instituta eksperimental'noy endokrinologii.

(BRAIN) (CARBOHYDRATE METABOLISM) (PANCREAS)

GENES, S.G.; CHARNAYA, P.M.

Influence of sodium amytal on the transfer of sugar from the arterial blood into the tissue of the posterior extremities and into the brain. *Biul. eksp. biol. i med.* 49 no.1:54-58 Ja '60. (MIRA 13:7)

1. Iz otdela patofiziologii (zav. - zaslushennyi deyatel' nauki prof. S.G. Genes) Ukrainskogo instituta eksperimental'noy endokrinologii (dir. - starshiy nauchnyy sotrudnik S.V. Maksimov). Predstavlena deystv. chlenom AMN SSSR V.N. Chernigovskim.

(AMOBARBITAL)

(BLOOD SUGAR pharmacol.)

EXTREMITIES (ANATOMY)

CHARNAYA, P.M.

Role of insulin in glycolytic processes in the brain tissue of
depancratized and healthy dogs. Trudy Ukr.nauch.-issl.inst.
eksper.endok. 18:134-140 '61. (MIRA 16:1)

1. Iz otdela patofiziologii Ukrainskogo instituta eksperimental'-
noy endokrinologii.
(INSULIN) (PANCREAS—SURGERY) (GLYCOLYSIS)

GENES, S.G.; CHARNAYA, P.M.

The effect of chlorpropamide on the transport of blood sugar into brain tissue and posterior extremities. Biul. eksp. biol. i med. 54 no.8:53-56 Ag '62. (MIRA 17:11)

1. Iz otdela patofiziologii (zav. - zasluzhennyy deyatel' nauki prof. S.G. Genes) Ukrainskogo instituta eksperimental'noy endokrinologii (dir. - kand. med. nauk S.V. Maksimov). Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Parinym.

CHARNAYA, P.M.

Effect of methylisopropamide on glycemia and the potentiation of the insulin effect. Trudy Ukr. nauch.-issl. inst. eksper. endok. 19:9-15 '64. (MIRA 18:7)

1. Iz otdela patofiziologii Ukrainskogo instituta eksperimental'noy endokriologii.

GENES, S.G.; CHARNAYA, P.M.; PLAVSKAYA, A.A.

Hypoglycemic and insulin-potentiating effect of methahexamid.
Farm. i toks. 27 no.1:54-60 Ja-F '64.

(MIRA 17:11)

1. Otdel patologicheskoy fiziologii (zav. - zasluzhennyy deyatel' nauki prof. S.G. Genes) Ukrainskogo instituta eksperimental'noy endokrinologii.

GENES, S.G.; MAKAREVICH-GAL'PERIN, L.M.; CHARNAYA, P.M.

Effect of sodium amytal on sugar secretion by the liver and its
extraction from the blood by some tissues. Biul.eksp.biol.i med.
58 no.10:70-74 0 '64. (MIRA 18:12)

1. Otdel patofiziologii (sav. - prof. S.G.Genes) Ukrainского
instituta eksperimental'noy endokrinologii (dir. - kand.med.
nauk S.V.Maksimov), Khar'kov. Submitted July 9, 1963.

GENES, S.G.; CHARNAYA, P.M.

Role of the various tissues in the potentiation of the
insulin effect by chlorpropamide. Probl. endok. i germ.
11 no.4:105-109 J1-Ag '65. (MIRA 18:11)

1. Otdel patofiziologii (zav.- prof. S.G. Genes) Ukrainskogo
instituta eksperimental'noy endokrinologii, Khar'kov.

SHUSTER, Ya. [Susters, J.]; CHARNAYA, R.; ROZENBERG, D.; SOLOMONOV, S.;
SHTERN, Z. [Sterns, Z.]

Pharmacological data on the analeptic, bemegride. Vestis Latv ak no.8:
105-110 '61.

CHERNETSKAYA, N. D.

"Architecture of Leningrad in the Graphic Works of Soviet Artists." Cand
Architectural Sci, Chair of Drawing, Life Drawing, Structures, Architectural Faculty,
Leningrad Construction Engineering Inst, Min Higher Education USSR, Leningrad, 1954.
(KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational
SO: Sum. No 538, 29 Jul 55

~~CHARNEVSKIY, Georgiy Vikent'yevich~~, kandidat arkhitektury; PYASKOVSKIY,
Vladimir Nikolayevich, kandidat arkhitektury; MURAV'YEV, B.V.,
kandidat arkhitektury, nauchnyy redaktor; ROTENBERG, A.S.,
redaktor izdatel'stva; PUL'KINA, Ye.A., tekhnicheskiy redaktor

[Planning and building dairy farms] Proektirovanie i stroitel'stvo
molochnykh ferm. Leningrad, Gos.izd-vo lit-ry po stroit. i arkhit..
1957. 74 p. (MLRA 10:8)
(Dairy farms)

SOKOLIK, Anatoliy Ioniasovich; CHARNETSKIY, Konstantin Konstantinovich;
POMICHEV, Aleksey Georgiyevich; LYUSTIBERG, V.F., inzh., ved.
red.; YAKOVLEV, D.A., inzh., red.; SOROKINA, T.M., tekhn.red.

[High-voltage OK-19M oscillograph system] Vysokovol'tnaya os-
tsillograficheskaya ustanovka OK-19M. Moskva, Filial Vses. in-
ta nauchn.i tekhn.informatsii, 1958. 15 p. (Peredovoi nauchno-
tekhnicheskii i proizvodstvennyi opyt. Tema 35. No.P-58-25/2)
(MIRA 16:3)

(Cathode ray oscillograph)

CHARNETSKIY, K. YU.

CHARNETSKII, Konstantin Iur'Evich.

Kal'kuliatsiia na shesnodorozhnom transporte; po materialam NK RKI SSSR.
Accounting in railway transport, according to data supplied by the People's
Comisariat of Inspection. Leningrad, Tekhnika upravleniia, 1931. 139 p.
diagrs.

Bibliography: p. 1407.

DLC: HE2241.C38

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS. A BIBLIOGRAPHY, Library of Congress
Reference Department, Washington, 1952, Unclassified.

CHARNETSKIY, V., prepodavatel'

Classification of lifeboats. Mor. flot 21 no.4:15-16 Ap '61.
(MIRA 14:4)

1. Odesskiy institut inzhenerov morskogo flota.
(Lifeboats)

FOLDES, Peter, dr. (Budapest, XI., Muegyetem rakpart 3); EVANGELIDI, I.;
CHARNI, O.

Study on the efficiency fractionating column with downcomer
grid plates. Pt.1. Periodica polytechn chem 8 no.3:197-204
'64.

1. Kafedra protsessov i apparatov khim. promyshlennosti,
Politekhnikheskiy Institut, Budapesht. Submitted March 14,
1964.

CHARNIK, Konstantin Timofeyevich [Charnyk, K.T.]; SOBOLEVA, V.P.
[Sobol'eva, V.P.], red.; MOROZKO, L.G. [Morozko, L.H.],
tekhn. red.

[We are all one family; striving for the title of the col-
lective farm of communist labor] Idemo iedynoiu sim'iei; v
borot'bi za kolhosp komunistychnoi pratsi. Kyiv, Kyivs'ke
obl. knyazhko-gazetne vyd-vo, 1963. 46 p. (MIRA 17:3)

1. Predsedatel' matyushanskogo kolkhoza "Radyans'ka
Ukraina", Belotserkovskoye upravleniye, Kiyevskaya oblast'
(for Charnik).

CHARNIKHOVSKIY, I.N., inzh.; BISKINA, S.L., inzh.

Use of turbocompressor equations in studying the operation of a
control system approaching surge conditions. Energomashinostroenie
11 no.5:43-44 My '65. (MIRA 18:6)

NOZHEVNIKOV, A.M.; CHARNINA, R.M.; KUPERMAN, Z.O.

Progressive technology of the operations in the technical car
inspection point. Zhel. dor. transp. 47 no.5:38-43 My '65.

(MIRA 18:6)

1. Glavnyy inzh. sluzhby vagonnogo khozyaystva Moskovskoy dorogi
(for Nozhevnikov). 2. Starshiy inzh. sluzhby vagonnogo khozyaystva
Moskovskoy dorogi (for Charnina). 3. Glavnyy inzh. vagonnogo depo
Perovo (for Kuperman).

CHARNIS, G.

**Fully mechanized accounting of a lunchroom. Obshchestv.pit. no.9:44-
46 S '60. (MIRA 13:11)**

**1. Glavnyy bukhgalter tresta obshchestvennogo pitaniya Moskovskogo
rayona g.Rigi.
(Riga--Restaurants, lunchrooms, etc.--Accounting)**

CHARNIS, G.

Mechanized stocktaking. Obshchestv. pit. no. 8:44-45 Ag '61.
(MIRA 14:10)

1. Glavnyy bul'ngalter treeta obshchestvennogo pitaniya
Moskovskogo rayona g. Rigi.
(Riga--Restaurants, **lunchrooms**, etc.--Accounting)

AM4024705

BOOK EXPLOITATION

s/

Charnko, D. V. (Professor)

Selection principles for technological processes used in machining
(Osnovy* vy*bora tekhnologicheskogo protsessa mekhanicheskoy
obrabotki). Moscow, Mashgiz, 63. 0319 p. illus., biblio.
Errata slip inserted. 7,500 copies printed.

TOPIC TAGS: machining, machining process, machining planning, equip-
ment grouping, operation scheduling, machining technological opera-
tion, choice of technological operation

PURPOSE AND COVERAGE: The book contains a procedure based on a
theory developed by the author for the synthesis of schedules of
technological operations, for the choice of a technological process
for parts machining. The author introduces theoretical concepts of
interaction between the methods and the schedule of the machining
process, the laws governing the development of schedule in techno-

Card 1/4

AM4024705

logical operations, and the connection between the operation schedule and the timing of the parts production. The material in the book can help new progressive machining systems and designs not as yet used in the USSR, and also select the optimal technological processes for machining. A procedure is developed for the choice of the schedule variant and the corresponding equipment, and comparative costs of the variants are estimated. The book is intended for engineers (designers and technologists) and can also be useful to senior students.

TABLE OF CONTENTS [abridged]:

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Ch. I. Analysis of parts design and principal trends in the development of technological processes - - 7

Ch. II. Choice of stock part - - 22

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Ch. III. Choice of machining basis and methods. Preliminary
routing of the parts machining - - 65
Ch. IV. Classification of machines and main concepts in technology
- - 91
Ch. V. Schedules for single-type machining operations - - 129
Ch. VI. Schedules for machining of different parts - - 181
Ch. VII. General schedule system and laws governing the development
of technological machining processes - - 219
Ch. VIII. General technological grouping of machine tools and
schedule of operations - - 262
Ch. IX. Procedure for choosing a schedule, of equipment grouping
and of the optimal variant of the technology - - 296
Conclusions - - 360
Literature - - 318

SUB CODE: IE

SUBMITTED: 19Jul63

NR REF SOV: 026

Card 3/4

AM4024705

OTHER: 000

DATE ACQ: 20Mar64

Card 4/4

CHARNKO, D.V.

Tekhnologiya potochnogo proizvodstva stankov. Utverzhdeno v kachestve uchebn. posobiia dlia stankostroit. vtuzov. Moskva, Mashgiz, 1946-illus.

Contents.- ch. 1 Mekhanicheskaiia obrabotka.

ASSEMBLY-line methods of machine-tool production. v. 1. Machining.

CLU

DLC: TJ1185. C56

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

Chernko, Donat Vladimirovich

CHARNKO, Donat Vladimirovich, prof.; STANKOVICH, V.G., retsenzent;
CHIKHACHEV, S.A., dots., red.; MOROZOVA, M.N., red.izd-va;
TIKHANOV, A.Ya., tekhn.red.

[Principles of planning continuous mass production in machinery
assembling plants]. Osnovy proektirovaniia ptochnogo proizvodstva
v mekhanosborechnykh tsekhakh. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit. lit-ry, 1957. 255 p. (MIRA 11:2)
(Machinery industry)

CHARNKO, D. V.

Increasing Labor Productivity in Machine Building (Voprosy povysheniya proizvoditel'nosti truda v mashinostroenii) Gosudarstvennoye nauch-tekh. izdat. mashinostroitel'. literatury, Moscow, 1957. 511 pp.
(Table of Contents authors below)

This collection presents a comparative tech. and economic analysis of most effective methods and industrial processes for obtaining high labor productivity in machine building. Output may be stepped up by further standarization of machine tools, materials, and production methods; drawing on unused potentials. Covers all stages of planning and production as performed in modern plants of USSR, actual experience, and new methods are discussed.

CHARNKO, D. V., "Some Features of Production-Line Technology," p. 91.

CHARNKO, D.V.; KHUDOBIN, L.V.

Increasing the efficiency of grinding. Stan.1 instr. 28 no.4:11-13
Ap '57. (MIRA 10:5)

(Grinding and polishing)

CHARNKO, D.V.

ANTIPOV, K.F., inzh.; BALAKSHIN, B.S., prof., doktor tekhn.nauk; BARYLOV, G.I., inzh.; BEYZEL'MAN, R.D., inzh.; BERDICHEVSKIY, Ya.G., inzh.; BOBKOV, A.A., inzh.; KALININ, M.A., kand.tekhn.nauk; KOVAN, V.M., prof., doktor tekhn.nauk; KORSKOV, V.S., doktor tekhn.nauk; KOSILOVA, A.G., kand.tekhn.nauk; KUDRYAVTSEV, N.T., prof., doktor khim.nauk; KURYSHEVA, Ye.S., inzh.; LAKHTIN, Yu.M., prof., doktor tekhn.nauk; MAYERMAN, M.S., inzh.; NOVIKOV, M.P., kand.tekhn.nauk; PARIYSKIY, M.S., inzh.; PEREPONOV, M.N., inzh.; POPILOV, L.Ya., inzh.; POPOV, V.A., kand.tekhn.nauk; SAVERIN, M.M., prof., doktor tekhn.nauk; SASOV, V.V., kand.tekhn.nauk; SATEL', E.A., prof., doktor tekhn.nauk; SOKOLOVSKIY, A.P., prof., doktor tekhn.nauk [deceased]; STANKOVICH, V.G., inzh.; FRUMIN, Yu.L., inzh.; KHRAMOV, M.I., inzh.; TSETLIN, L.B., inzh.; SHUKHOV, Yu.V., kand.tekhn.nauk; MARKUS, M.Ye., inzh., red. [deceased]; GRANOVSKIY, G.I., red.; DEM'YANYUK, F.S., red.; ZUBOK, V.N., red.; MALOV, A.N., red.; NOVIKOV, M.P., red.; CHARNKO, D.V., red.; KARGANOV, V.G., inzh., red. graficheskikh rabot; SOKOLOVA, T.F., tekhn.red.

[Manual of a machinery designer and constructor; in two volumes] Spravochnik tekhnologa-mashinostroitelia; v dvukh tomakh. Glav. red. V.M.Kovan. Chleny red.soveta B.S.Balakshin i dr. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry. Vol.1. Pod red. A.G.Kosilovoi. 1958. 660 p. (MIRA 13:1)
(Mechanical engineering--Handbooks, manuals, etc.)

CHARNKO, D.V.

Structural method for determining main characteristics of
metalworking processes (to be concluded). Stan.1 instr. 29
no.6:1-7 Je '58.

(MIRA 11:7)

(Mechanical engineering)

CHARNEK, D.V.

Structural method used in determining main characteristics of
mechanical operations. Stan. 1 intr. 29 no.7:1-7 J1 '58.
(Metal cutting) (MIRA 11:9)

CHARNEK, D.V.

Structural system of technological processes. Stan.1
instr. 31 no.4:3-11 Ap '60. (MIRA 13:6)
(Mechanical engineering)

MALKIN, Aleksey Yakovlevich, doktor tekhn. nauk, prof.; CHARNKO, D.V.,
prof., retsenzent; BUTUZOV, Ye.A., kand. tekhn. nauk, dotsent;
nauchnyy red.; BALANDIN, A.F., red. izd-va; DOBRITSYNA, R.I.,
tekhn. red.

[Fundamentals of technological processes in machining machine parts]
Osnovy tekhnologii mekhanicheskoi obrabotki detalei mashin. Moskva,
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 198 p.
(MIRA 14:9)

(Mechanical engineering) (Metalwork)

MESHCHERIN, Vladimir Timofeyevich, doktor tekhn. nauk, prof.;
~~CHARNKO, Donat Vladimirovich~~, prof.; MELESHKEVICH, P.S.,
inzh., retsenzent; OSIPOVA, L.A., red. izd-va; SOKOLOVA,
T.F., tekhn. red.; EL'KIND, V.D., tekhn. red.

[Technology of manufacturing forging and sheet metal working
equipment] Tekhnologiya proizvodstva kuznechno-shtampovogo
oborudovaniia i shtampovoi osnastki. Moskva, Mashgis, 1961.
375 p. (MIRA 15:2)

(Forging machinery) (Sheet metal working machinery)
(Dies (Metalworking))

DOIMATOVSKIY, Georg Avraamovich; CHARNKO, D.V., prof., retsenzent;
MODEL', B.O., tekhn. red.; UVAROVA, A.F., tekhn. red.

[Manual for specialists in metal cutting] Spravochnik tekhnolo-
loga po obrabotke metallov rezaniem. 3. izd., perer. Mo-
skva, Mashgis, 1962. 1235 p. (MIRA 15:4)
(Metal cutting)

CHARNKO, D.V., prof.; VLADZIYEVSKIY, A.P., doktor tekhn. nauk,
prof., retsenzent; FAL'KO, O.S., red.izd-va; UVAROVA,
A.F., tekhn. red.

[Fundamentals of selecting the technical process for machin-
ing] Osnovy vybora tekhnologicheskogo protsessa mekhaniche-
skoi obrabotki. Moskva, Mashgiz, 1963. 319 p.

(MIRA 16:12)

(Metal cutting)

CHARNO, Isaak Abramovich

Professor at Moskva Petroleum Institute and co-author of work "Basic Scientific Conceptions in the Development of Oil Fields", Pub. 1948.

Soviet Source: N: Izvestiya, No. 83, 9 April 49, Moskva.

Abstracted in USAF "Treasure Island", on file in Library of Congress, Air Information Division, Report no. 108571. Unclassified.

CHARNOLUSSKIY, V., arkhitektor

Floors from plastics in roll or tile form. Zhil. stroi. no.4:8-9
Ap '61. (MIRA 14:5)

(Floor coverings)

S/081/61/000/021/021/094
B101/B147

AUTHORS: Charnorechki, O. St., Arshinkov, I. St.

TITLE: Preparation of γ -Fe₂O₃ with highly ferromagnetic properties

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 73, abstract
21V14 (Dokl. Bolg. AN, v. 13, no. 2, 1960, 171 - 174)

TEXT: A method of preparing γ -Fe₂O₃ from Fe(II) oxalate in a single operation is described. The conditions for the thermal treatment of the γ -Fe₂O₃ and the industrial prospects of the method suggested were investigated. [Abstracter's note: Complete translation.] ✓

Card 1/1

CHARNOTSKAYA, N.A.; NAZAR'YENVA, N.N.

Etiology, pathogenesis and therapy of acute leukemia. Arkh.pat.
16 no.2:31-35 Ap-Je '54. (MLRA 7:5)

1. Iz kliniko-diagnosticskoy laboratorii Tambovskoy oblastnoy
bol'nitsy (glavnyy vrach Yu.I. Melikov). (LEUKEMIA,
*etiol., pathogen., & ther.)

ACCESSION NR: AP5019005

UR/0286/65/000/012/0029/0029
621.316.925.43

AUTHOR: Charnotskiy, A. P.; Panteleyev, V. F.

TITLE: A transistorized current relay. Class 21, No. 171900

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 29

TOPIC TAGS: relay system, current relay

ABSTRACT: This Author's Certificate introduces: 1. A transistorized current relay which contains a 3-legged transformer with a single primary and two secondaries wound on different cores. A transistor amplifier is connected through rectifiers to the two secondaries. The transistor has a reference diode in the base circuit and the output relay in the collector circuit. The resetting ratio is increased by connecting the transistor amplifier to the two windings of the transformer, one of which feeds the collector circuit (working winding) while the other feeds the base circuit (measurement winding). 2. A modification of this relay in which the collector and base circuits of the transistor amplifier are supplied from a common current source through the transformer.

Card 1/3

ACCESSION NR: AP5019005

ASSOCIATION: none

SUBMITTED: 17Aug63

ENCL: 01

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

Card 2/3

ACCESSION NR: AP5019005

ENCLOSURE: 01

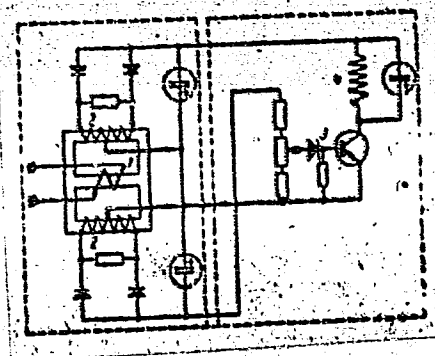


Fig. 1. 1--transformer primary;
2--transformer secondaries;
3--reference diode; 4--output re-
lay coil

Card 3/3

CHARNOTSKIY, G.V., inzh. (Saratov)

Temporary specifications for planning and constructing municipal
gas lines using asbestos-cement pipes. Stroi. truboprov. 5
no.8:22-23 Ag '60. (MIRA 13:9)
(Pipe, Asbestos-cement) (Gas distribution)

CHARNOTSKIY, L.V., inzh.

Asbestos-cement pipes should be of better quality. Stroi.
truboprov. 7 no.2:11 F '62. (MIRA 15:3)

1. Gipronigas, g. Saratov.
(Pipe, Asbestos-cement)

CHARNOVSKI, V.; KOVNATSKI, A.

For a reliable performance of loading winches. Mor. flot 23
no.5:29 '63. (MIRA 16:9)

1. Glavnyy inzh. Tsentral'nogo konstruktorskogo sudostroitel'nogo
byuro No.1 (for Charnovski). 2. Glavnyy inzh. zavoda sudovykh
elektroustroystv, Gdan'sk (for Kohnatski).
(Winches--Design and construction)

Charnushevich, M.D.

Redistribution of extracellular glycogen in fatigued
muscle effected by adrenaline. M. D. Charnushevich.
Izvest. Akad. Nauk Beloruss. S.S.R. 1954, No. 1, 195-6 (in
Russian). - See C.A. 49, 14145f. E. J. C.

Chernyak, V.N.

V 547. OPTIMUM GAS VELOCITIES AND A TECHNICAL AND ECONOMIC COMPARISON OF
HEATING SURFACES WORKING UNDER PRESSURE. Kuznetsov, N.V., Shcherbakov, A.Z.,
Titova, E.Ya. and Chernyak, V.N. (Teploenergetika (Heat Pwr Engng, Moscow),
Aug. 1955, 3-10). A theoretical examination of gas velocities and the shape
of heating surfaces in superheaters and economizers in view of recent findings
on heat transfer and the fouling of tubes by ash. (L).

L 20321-63 EPF(c)/EWT(m)/BDS AFETC/APCC Pt-4 PW/WT/DJ
ACCESSION NR: AT3001987 S/2664/61/000/000/0174/0184

AUTHORS: Sanin, P. I.; Charnyavskaya, L. F.; Sher, V. V.; Melent'yeva, N. V.

TITLE: The mechanism of the action of additives. || On the mechanism of the detergent action of additives. //

SOURCE: Prisadki k maslam i toplivam; trudy nauchno-tekhnicheskogo soveshchaniya. Moscow, Gostoptekhizdat, 1961, 174-184.

TOPIC TAGS: lubricant, lubrication, additive, detergent, detergence, dispersive, dispergator, peptizing, agent, peptizator, suspension, adsorption, adsorptive flocculation, Ni, dialkyldithiophosphate, toluene.

ABSTRACT: This paper combines an extensive literature survey on the mechanism of the detergent action of additives with the description of an investigation of the mechanism of dispersive additives. The major portion of the investigation was performed with multipurpose additives of the type of the dialkyldithiophosphates (DADTP) of metals and, especially, of DADTP of Ni, which, as some of the authors have shown previously, exhibit strong detergent qualities. The use of additives consisting of a single compound eliminated the effect of unknown components which ordinarily exist in technical additives. Additives of the type of DADTP of Ni were

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ACCESSION NR: AT3001987

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selected also, because their hydrocarbon solutions have a specific (violet) hue, a fact that was utilized for the quantitative colorimetric determination of the concentration of the additive in adsorptional tests. The paper reports an investigation of the surface activity of Ni-DADTP. It is concluded that the Ni-DADTP is a surface-active substance and can be adsorbed from a hydrocarbon medium onto the interface between a hydrocarbon medium and water; it can also be adsorbed on the surface of hydrocarbon particles and soot. Such adsorption prevents the "sticking" (aggregation, flocculation) of soot particles and produces the dispersion (peptization) of enlarged soot particles already formed. In effect, the adsorption causes the soot particles to be covered with a layer of Ni-DADTP molecules. Thereupon the affinity of the particles to oil is sharply improved, and the suspension as a whole remains stabilized. Photographs were taken of soot preparations obtained from soot suspensions in toluene with and without any DADTP additive. An EM-100 electron microscope with 15,700x magnifying power was used. The electron-microscope photographs permitted the determination of the mean magnitude of the soot particles and the mean number of molecules adsorbed on an averaged soot particle. The number of particles in percent of the total was plotted versus the particle diameter. In summary, it is concluded that the global action of additives consists in the increased dispersivity of the oily suspension formed during the operation of the engine and the stabilization of that suspension. In other words, a process of the adsorptional dispersion of the insoluble products in the oil is observed. Inasmuch as, during the

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L 20321-63.

ACCESSION NR: AT3001987

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sticking together of particles (flocculation) in an oil, relatively friable aggregates are formed, their dispersion may be regarded as a process of peptization. Whenever the oily suspension reaches the hottest parts of the engine, and if the additive is not sufficiently surface-active, a desorption of the additive occurs; the disperse phase is then not adequately protected, and the insoluble particles unite into relatively large aggregates (flocculation) and precipitate onto the metallic surface. Hence, the so-called detergent action of additives can be regarded as a dispersive (or peptizing) action and, hence, detergent additives should really be termed "dispersators" or "peptizing agents." "The authors express their gratitude to P. A. Tesner for the preparation of the soot specimens and the electron-microscope photographs." Orig. art. has 7 figures.

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR (Institute of Petrochemical Synthesis, AS, USSR).

SUBMITTED: 00	DATE ACQ: 23Jan63	ENCL: 00
SUB CODE: FL, CH, EL	NO REF SOV: 020	OTHER: 011

Cord 3/3

L 58850-65 EED-2/EWA(h)/ENT(a)/ENT(1)/ENP(1) Pg-4/Pk-4/Pl-4/Pq-4/Peb
IJP(c) GG/BB

ACCESSION NR: AP5014002

UR/0119/65/000/005/0015/0017

621.032:681.142.621

AUTHOR: Kashchuk, A. P. (Engineer); Kurdikov, B. A. (Engineer); Smolov, V. B. (Doctor of technical sciences); Charnyavskiy, Ye. A. (Candidate of technical sciences)

TITLE: Universal semiconductor digital-to-analog function generator

SOURCE: Priborostroyeniye, no. 5, 1965, 15-17

TOPIC TAGS: function generator, digital analog function generator

ABSTRACT: A digital-to-analog time-function generator using the method of piecewise-linear approximation is described. Linear and nonlinear time-to-digit and digit-to-voltage intermediate converters are employed; they ensure a combination multiplying-function characteristic without resorting to multiplying units. The digit-to-voltage converter permits using either dc or ac as a carrier of the input and output continuous information; this fact is valuable in developing a-c cybernetic devices. A laboratory model of the generator designed to generate

$$\left. \begin{aligned} U_1 &\approx \sin 0,5\pi \frac{t}{T}; U_2 \approx \sec \frac{\pi}{3} \frac{t}{T}; U_3 \approx \sqrt{\frac{t}{T}} \\ U_4 &\approx \lg \frac{\pi}{3} \frac{t}{T}; U_5 \approx \ln k \frac{t}{T} \text{ при } \frac{t}{T} > 0,1 \end{aligned} \right\}$$

Card 1/2

L 58850-65

ACCESSION NR: AP5014002

with an error of 1% or less was built and tested by the authors. An experimental verification of the model showed its "complete agreement with the calculated parameters". Orig. art. has: 4 figures and 7 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: DP, EC

NO REF SOV: 004

OTHER: 000

hjp
Card 2/2

CHARNYAYSKI, I. TS.

[The significance of the proper relation of sections in the development of collective farm economy] Znachenne pravil'nykh suadnosin halin u rasvitsi hramadskai haspadarki kalhasau. Minsk, Akademia nauk Belaruskai SSR, 1955. 82 p. (MLRA 10:5)
(Collective farms)

CHARNYI, A., inzh.-izobretatel'

Continuous steel flow. Izobr. i rats. no.6:4-5 Je '61. (MIRA 14:6)
(Steel castings)

CHARNIY, A., inzhener, izobretatel'

Blast furnace is a chemical plant. Izobr. i rats. no.7:10-11
J1 '61. (MIRA 14:6)

1. Gosudarstvennyy institut proyektirovaniya metallurgicheskikh
zavodov.

(Blast furnaces)
(Chemistry, Metallurgic)

CHARNY, A., izzh.

Coupling shafts of a clutch. Izobr. i rats. no. 3:37-38 Mr '62.
(MIRA 15:2)

(Clutch)

CHARNYI, A., inzh., izobretatel'

Teeming and rolling as a single process. , Izobr.i rats. no.11:3-5
N '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskogo
mashinostroyeniya.

(Rolling (Metalwork)) (Steel castings)

MEDVEDEV, Yuliy Emmanuilovich; CHARNYY, A.Kh., nauchn. red.;
KUPRIYANOV, V.A., nauchn. red.; SOKOLOV, O.I., red.;
ATROSHCHENKO, L.Ye., tekhn. red.

[The path of metallurgy] Puti metallurgii. Moskva, Izd-
vo "Znanie," 1963. 46 p. (Novoe v zhizni, nauke, tekhnike.
IV Seriya: Tekhnika, no.17) (MIRA 16:10)
(Metallurgy)

CHARNY, A. M.

DECEASED

1963/1

c. 1961

MEDICINE- Biology

See ILC

CHARNYI, I. A.

"Influence of Compressibility of Boundary Water on the Method of Exploiting Oil Fields,"
Iz. Ak. Nauk SSSR, Otdel. Tekh. Nauk, Nos. 7-8, 1944.

WE

Genie P. H. 110

I. A. CHARNY

1508
On a Modification of Forchheimer's Problem.
I. A. CHARNY, *U.S. Army, Fort S. D., S. Dak.*
On the determination of the heat
losses from a length of tube buried in the ground,
when the coefficient of heat transfer from the surface
of the ground to the air has a finite value.

A53
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SA

531.787 -- 62 1742

Influence of connecting tube on manometer readings of pressure variations. Chumakov I.A. Dokl. Akad. Sci. USSR, Eng. Sec. Trans. (Vol. 3) 135-69 (1946) In Russian.
The distortion of the phase and amplitude of rapid pressure variations caused by the connecting tube to a recording manometer are discussed theoretically. D. S.

A50-114 METALLURGICAL LITERATURE CLASSIFICATION

PRECEDENCE AND PRIORITY INDEX																									
1ST AND 2ND ORDERS													3RD AND 4TH ORDERS												
32																									
Approximate Calculation of the Resistance during the Convective Flow of an Incompressible and Nonviscous Liquid Around a Solid Body. I. A. Charnii. Bulletin of the Academy of Sciences of U.S.S.R. (Section of Technical Science), no. 7, 1948, p. 935-941. (In Russian.) Method of calculation proposed is very simple and, in the case of a potential flow around the front surface of a body, gives values for the lifting power and for the front resistance which are slightly lower than those obtained from experimental investigations. This difference in values may be considered as an additional safety factor during the application of the calculation to practical problems.																									
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CHARNYI, I. A.

PA 27T24

USSR/Engineering
Oil Wells
Mathematics, Applied

Dec 1946

"The Interference of Imperfect Wells," I. A. Charnyy,
8 pp

"Iz Ak Nauk, Otd Tekh Nauk" No 11

Mathematical discussion on calculating the flow of
wells with strata not completely broken through.

ID

27T24

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
Filtration of Gas Through Carbon Layers. (Concerning the Leakage of Gas and Oxygen Under Pressure During Underground Gasification of Coal Deposits.) (In Russian.) I. A. Charay. Bulletin of the Academy of Sciences of U.S.S.R. (Section of Technical Sciences), no. 2, 1947, p. 131-141. Attempts, by means of mathematical analysis, to establish relationships between the amount of gas leakage through layers of coal and a number of different factors, such as shape of the slits in the coal layer, oxygen pressure, intensity of reaction, and others.																																																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			
1ST AND 2ND ORDERS																																																			
3RD AND 4TH ORDERS																																																			

CHARNY, I. A.

PA 16T68

USSR/Diffusion
Gas, Natural

Feb 1947

"Diffusion of a Gas in Isotropic and Anisotropic Media," I. A. Charnyy, 10 pp

"Inzhenernyy Sbornik" Vol III, No 2

The author deals with the distribution of gas concentrations seeping through the earth's crust, with applications to gas prospecting in oil districts.

16T68

4111

*Hydraulics: compact
J. V. Wehausen, Cavitation
16*

1266. I. A. Cherny, "On pressure variations upon sluice gates in a closed conduit with a surge tank in the tail water" (in Russian, *Izv. Akad. Nauk SSSR Tekh. Nauk (Ser. Mekh. i Mash. Stroitel'stvo)*, Aug. 1947, no. 8, pp. 929-931).

The author is concerned with the efficacy of a surge tank situated in the tail water just behind a sluice gate in a closed conduit, as a device for absorbing pressure pulsations in that region. The specific problem treated is that in which the pressure at a fixed distance downstream from the surge tank is assumed known as a function of time, and the pressure at the position of the surge tank is computed as a function of time. By using a Fourier integral representation for the given pressure, the author is able to find an integral giving the desired pressure function.

The case of a sudden jump in the applied pressure downstream is studied in some detail and the author concludes that the surge tank markedly reduces the pressure pulsations at the sluice gate, a result which he claims to be borne out by model experiments. The cause of the pulsations is not investigated.

J. V. Wehausen, USA

Aug 1948

CHARNY, I.A., prof.

Regarding a problem on the theory of compressible fluid flow.
Trudy MNI no. 7:48-70 147. (MIRA 12:1)
(Hydraulics)

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42369 CHARNYY, M. - Universalyy tsepnoy transporter. Molochprom-st, 1948, No 11, S 29-31

SO: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948

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Highly viscous fluid flow from containers. Trudy MHI no.7:39-48
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Petroleum flow toward wells in fields having various shapes.

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Underground hydromechanics Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1948. 196 p.
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Krylov, A. P., Glogovskiy, M. M., Mirchink, M. F., Nikolevskiy, N. M., and
Charnyy, I. A., "Scientific Bases for the Exploitation of Petroleum Deposits."
Gostoptekhizdat, 1948, 416 pp, 3,000 copies.

1ST AND 2ND DEGREES		3RD AND 4TH DEGREES	
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Displacement of the Phase Boundary of the Aggregate State During Cooling or Heating of Objects. (In Russian.) I. A. Charnyi. <i>Izvestiya Akademii Nauk SSSR, Otdelenie Tekhnicheskikh Nauk</i> (Bulletin of the Academy of Sciences of the USSR, Section of Technical Sciences), Feb. 1948, p. 187-202. Presents mathematical analysis of the above problem for three different cases: displacement of the phase boundary at constant boundary temperature; at constant coefficient of heat transfer; and for a circular dividing surface at constant boundary temperature. Equations are interpreted graphically.			
Inst. Mech., AS USSR		Evaluation B-78945	
ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION			
1ST DEGREE		2ND DEGREE	
3RD DEGREE		4TH DEGREE	
5TH DEGREE		6TH DEGREE	
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26																			
Method of Successive Substitution of Stationary States and Its Application to the Problem of Nonstationary Filtration of Liquids and Gases. (In Russian.) I. A. Charnyi, <i>Izvestiya Akademii Nauk SSSR, Otdelenie Tekhnicheskikh Nauk</i> (Bulletin of the Academy of Sciences of the USSR, Section of Technical Sciences), Mar. 1949, p. 323-342. Method described permits, with accuracy sufficient for practical application (about 10%), solution of a series of problems in the filtration of liquids and gases. Theoretical bases and formulas for calculation are indicated.																			
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